

# Patent Abstracts of Japan

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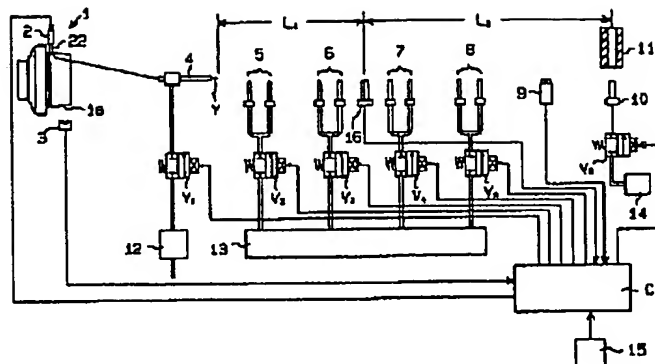
APPLICATION DATE : 10-09-92  
APPLICATION NUMBER : 04242279

APPLICANT : TOYOTA AUTOM LOOM WORKS LTD;

INVENTOR : SHIRAKI MASAO;

INT.CL. : D03D 47/30

TITLE : APPARATUS FOR CONTROLLING  
WEFT-INSERTION IN JET LOOM



**ABSTRACT :** **PURPOSE:** To surely introduce a weft into a holding pipe and keep the weft tension to a proper level by stopping an auxiliary nozzle at the side of weft insertion terminal and actuating a stretch nozzle when the tip of the weft is estimated to come in the acting range of the stretch nozzle.

**CONSTITUTION:** A weft Y is inserted by the ejecting action of a weft-insertion main nozzle 4 and auxiliary nozzle groups 5-8 of a jet loom. The arrival time of the flying weft Y is detected by a detector 16 placed at a prescribed position in the weaving width. The arrival time of the tip end of the weft Y at the ejection action region of a stretch nozzle 10 placed at the side of weft insertion terminal is estimated by a control computer C based on the above detection result. At the same time, the computer C controls the ejection pressure wave form of the auxiliary nozzle 8 of the side of weft insertion terminal and the stretch nozzle 10, stops the ejection from the auxiliary nozzle 8 at the estimated time, starts the ejection of the stretch nozzle 10 and surely guides the tip end of the weft Y into a holding pipe 11.

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